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FILE 'HOME' ENTERED AT 16:08:46 ON 26 JAN 2005

=> file medline, uspatful, dgene, embase, wpids, jicst, biosis
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 0.21 0.21

FILE 'MEDLINE' ENTERED AT 16:09:06 ON 26 JAN 2005

FILE 'USPATFULL' ENTERED AT 16:09:06 ON 26 JAN 2005
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=> s GFP or green fluorescent protein
L1 67032 GFP OR GREEN FLUORESCENT PROTEIN

=> s 11 and mutation
L2 11804 L1 AND MUTATION

=> s GFP mutant

L4 127 L3 AND L2

=> s 14 and (F64/E222/S1

```
=> s 14 and (F64 and E222)  
'E222' NOT FOUND  
The E# entered is not currently defined.
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=> s 14 and (position F64)
L6 2 I4 AND (POSITION F64)

=> d 16 ti abs jibib tot

L6 ANSWER 1 OF 2 USPATEULL on STN

TI Fluorescent proteins

AB The present invention provides novel engineered derivatives of green fluorescent protein (GFP) which have an amino acid sequence which is modified by amino acid substitution compared with the amino acid sequence of wild type Green Fluorescent Protein. The modified GFPs exhibit enhanced fluorescence relative to wtGFP when expressed in

non-homologous cells at temperatures above 30° C., and when excited at about 490 nm compared to the parent proteins, i.e. wtGFP. An example of a preferred protein is F64L-S 175G-E222G-GFP. The modified GFPs provide a means for detecting GFP reporters in mammalian cells at lower levels of expression and/or increased sensitivity relative to wtGFP. This greatly improves the usefulness of fluorescent proteins in studying cellular functions in living cells.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:179250 USPATFULL

TITLE: Fluorescent proteins

INVENTOR(S):
Stubbs, Simon Lawrence John, Amersham, UNITED KINGDOM
Jones, Anne Elizabeth, Amersham, UNITED KINGDOM
Michael, Nigel Paul, Amersham, UNITED KINGDOM
Thomas, Nicholas, Amersham, UNITED KINGDOM

NUMBER KIND DATE

PATENT INFORMATION: US 2004138420 A1 20040715
APPLICATION INFO.: US 2004-757624 A1 20040114 (10)
RELATED APPLN. INFO.: Division of Ser. No. US 2001-967301, filed on 28 Sep 2001, PENDING

NUMBER DATE

PRIORITY INFORMATION: GB 2001-9858 20010423
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: AMERSHAM BIOSCIENCES, PATENT DEPARTMENT, 800 CENTENNIAL AVENUE, PISCATAWAY, NJ, 08855
NUMBER OF CLAIMS: 24
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 7 Drawing Page(s)
LINE COUNT: 1267

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 2 OF 2 USPATFULL on STN

TI Fluorescent proteins

AB The present invention provides novel engineered derivatives of green fluorescent protein (GFP) which have an amino acid sequence which is modified by amino acid substitution compared with the amino acid sequence of wild type Green Fluorescent Protein. The modified GFPs exhibit enhanced fluorescence relative to wtGFP when expressed in non-homologous cells at temperatures above 30° C., and when excited at about 490 nm compared to the parent proteins, i.e. wtGFP. An example of a preferred protein is F64L-S175G-E222G-GFP. The modified GFPs provide a means for detecting GFP reporters in mammalian cells at lower levels of expression and/or increased sensitivity relative to wtGFP. This greatly improves the usefulness of fluorescent proteins in studying cellular functions in living cells.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:251073 USPATFULL

TITLE: Fluorescent proteins

INVENTOR(S):
Stubbs, Simon Lawrence John, Amersham Buckinghamshire, UNITED KINGDOM
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	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003175859	A1	20030918
APPLICATION INFO.:	US 2001-967301	A1	20010928 (9)
	NUMBER	DATE	
PRIORITY INFORMATION:	GB 2001-9858	20010423	
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	AMERSHAM BIOSCIENCES, PATENT DEPARTMENT, 800 CENTENNIAL AVENUE, PISCATAWAY, NJ, 08855		
NUMBER OF CLAIMS:	24		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	7 Drawing Page(s)		
LINE COUNT:	1284		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

=> s 14 and (position E222)

'E222' NOT FOUND

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